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1. DHP16A-001: Bio-mathematical Models of Aggregated Tissues & Organ Properties

Release Date: 12-11-2015Open Date: 01-11-2016Due Date: 02-17-2016Close Date: 02-17-2016

TECHNOLOGY AREA(S): Biomedical OBJECTIVE: To develop a preliminary framework for a bio mathematical model to explain how human tissues interact / behave at their boundaries; develop a mathematical framework for translating this tissue interaction / behavior into predictive mathematical / biomechanical models able to represent tissue property transitions (e.g. muscle to tendon/ligament), aggregated ...

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2. CBD161-001: Dual-Purpose Biocidal and Chemical Warfare Agent/Reactive Textile Finish

Release Date: 12-10-2015Open Date: 01-11-2016Due Date: 02-17-2016Close Date: 02-17-2016

TECHNOLOGY AREA(S): Biomedical, Chemical/Biological Defense, Materials/Processes OBJECTIVE: Develop textile finishes that can provide both broad spectrum biocidal activity

and chemical warfare agent reactivity. Develop protective finishes for military relevant textiles that provide broad spectrum biocidal activity (Gram-positive bacteria, Gram-negative bacteria, fungi, and viruses) that are compat ...

SBIR Office for Chemical and Biological DefenseDepartment of Defense

3. CBD161-002: Development of Chemical and Biological Aerosol and Liquid Repellent Coatings

Release Date: 12-10-2015Open Date: 01-11-2016Due Date: 02-17-2016Close Date: 02-17-2016

TECHNOLOGY AREA(S): Chemical/Biological Defense, Materials/Processes OBJECTIVE: To develop, assess, and optimize Chemical and Biological (CB) aerosol and liquid repellent coatings for use on textiles and solid surfaces. DESCRIPTION: Chemical and Biological agents can be in the aerosol state (i.e., tiny particles or droplets suspended in the air1) or liquid state. It is therefore critical to develo ...

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4. CBD161-003: Dermal Medical Countermeasures for Chemical Weapons Exposure

Release Date: 12-10-2015Open Date: 01-11-2016Due Date: 02-17-2016Close Date: 02-17-2016

TECHNOLOGY AREA(S): Biomedical, Chemical/Biological Defense, Human Systems OBJECTIVE: To develop low-cost, FDA-cleared toxic chemical neutralizing countermeasures for use on abraded skin or whole body DESCRIPTION: Current formulations of dermal medical countermeasures to chemical warfare agents (CWAs) are only approved by the FDA for small area applications on intact skin. This severely restricts ...

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5. CBD161-004: Medical Countermeasure Development for Viral Induced Encephalitis Using Single Domain Antibodies

Release Date: 12-10-2015Open Date: 01-11-2016Due Date: 02-17-2016Close Date: 02-17-2016

TECHNOLOGY AREA(S): Biomedical, Chemical/Biological Defense OBJECTIVE: The objective of this effort is to identify single domain antibodies that demonstrate the capability to cross the blood brain barrier and neutralize encephalitic viruses. DESCRIPTION: Currently there is a capability gap for the effective treatment of viral induced encephalitis. It is widely acknowledged that viruses such as tho ...

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6. CBD161-005: Smartphone Application for Mask Sizing and Projecting Quantitative Fit

Release Date: 12-10-2015Open Date: 01-11-2016Due Date: 02-17-2016Close Date:

02-17-2016

TECHNOLOGY AREA(S): Chemical/Biological Defense OBJECTIVE: Design and develop a software application (‘app’) for rapid identification of the appropriate size of a respiratory protective mask facepiece and to reliably predict the quantitative protective fit once the size has been determined. DESCRIPTION: Military respirators used for protection against chemical, biological, radiological and nuc ...

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7. CBD161-006: Contaminated Material Transfer Case

Release Date: 12-10-2015Open Date: 01-11-2016Due Date: 02-17-2016Close Date: 02-17-2016

TECHNOLOGY AREA(S): Chemical/Biological Defense, Materials/Processes OBJECTIVE: The overall objective is to develop a high strength/low weight chemically and biologically impermeable container capable of being opened to allow the insertion of the maximum sized contents of 85” x 24” x 18” and up to 335 lbs of chemical or biological hazardous materials. After loading contents, the container wo ...

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8. DHP16-001: Warrior Health Avatar

Release Date: 12-10-2015Open Date: 01-11-2016Due Date: 02-17-2016Close Date: 02-17-2016

TECHNOLOGY AREA(S): Biomedical OBJECTIVE: Develop and demonstrate a simulation framework and physiology based modeling tools of a warfighter body that could enable definite assessment of his/her health status, physical and physiological performance, and injury trajectory by both the user and medical personnel using mobile computing platforms. DESCRIPTION: The experience of recent military conflict ...

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9. DHP16-002: Severe Trauma Female Simulation Training System

Release Date: 12-10-2015Open Date: 01-11-2016Due Date: 02-17-2016Close Date: 02-17-2016

TECHNOLOGY AREA(S): Biomedical OBJECTIVE: Develop a realistic simulation-based training system to support the development of psychomotor skills to treat severe trauma on female casualties at point of injury. DESCRIPTION: Pre-hospital care plays a vital role in battlefield medicine. The primary mission of military medical personnel on the battlefield is to treat the wounded and save lives. The Army ...

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10. DHP16-003: Value Based Monitoring of Cycles of Care

Release Date: 12-10-2015Open Date: 01-11-2016Due Date: 02-17-2016Close Date:

02-17-2016

TECHNOLOGY AREA(S): Biomedical OBJECTIVE: The objective is to develop software algorithms that reuse existing Military Health System data derived from healthcare operations to assess patient health and performance outcomes for condition-specific cycles of care, and their associated costs, for the purpose of measuring value. DESCRIPTION: The United States Air Force Medical Service (AFMS) has a curr ...

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